

What I claim as my invention is:

1. An electrical power generator comprising:  
a generally disc-shaped permanent magnet having one magnetic pole near its center and a second magnetic pole near its circumference.
2. The generator according to Claim 1 wherein said magnet has two generally flat sides, further comprising:  
a first slip ring on a first side of said magnet,  
a second slip ring on a second side of said magnet, and  
a first crossover electrically coupling said first slip ring and said second slip ring.
3. The generator according to Claim 2 wherein:  
said first slip ring, said second slip ring, and said crossover are formed from sheet metal and are carried on said magnet.
4. The generator according to Claim 3 wherein:  
said crossover is carried on the outer circumference of said magnet.
5. The generator according to Claim 2 wherein:  
said magnet comprises an electrically conductive material, said first slip ring and said second slip ring are selected areas on the surface of said magnet, and said crossover comprises said magnet.
6. The generator according to Claim 2, further comprising:  
a first lead wire coupled to said first slip ring, and  
a second lead wire coupled to said second slip ring.
7. The generator of Claim 6, further comprising:

a first sliding contact coupled to said first lead wire and in sliding contact with said first slip ring, and

a second sliding contact coupled to said second lead wire and in sliding contact with said second slip ring.

8. The generator according to Claim 7 wherein:

said sliding contacts comprise graphite brushes.

9. The generator according to Claim 2 further comprising:

a first plurality of lead wires coupled to said first slip ring, and

a second plurality of lead wires coupled to said second slip ring.

10. The generator according to Claim 9 further comprising:

a first plurality of sliding contacts, each coupled to one of said first plurality of lead wires and each making sliding contact with said first slip ring, and

a second plurality of sliding contacts, each coupled to one of said second plurality of lead wires and each making sliding contact with said second slip ring.

11. The generator according to Claim 2 further comprising:

a third slip ring on said first side of said magnet,

a fourth slip ring on said second side of said magnet, and

a second crossover coupling said third slip ring and said fourth slip ring.

12. The generator according to Claim 11 further comprising;

a first lead wire coupled to said first slip ring,

a second lead wire coupled to said second slip ring,

a third lead wire coupled to said third slip ring, and

a fourth lead wire coupled to said fourth slip ring.

13. The generator according to Claim 12 wherein:  
said first and second lead wires form a first generator output, and  
said third and fourth lead wires form a second generator output.
14. The generator according to Claim 13 wherein:  
said first generator output and said second generator output are coupled  
in series.
15. The generator according to Claim 1, further comprising:  
a magnetically permeable ring carried on the outer circumference of said  
disc shaped permanent magnet.
16. The generator according to Claim 15, further comprising:  
a rotatable shaft supporting said disc shaped permanent magnet for  
rotation about its center.
17. The generator according to Claim 16 wherein:  
said shaft comprises a magnetically permeable material.
18. The electrical power generator of Claim 1 wherein:  
said magnet has a greater thickness at its circumference than at its center.
19. An electrical generator comprising:  
a rotatable shaft, and  
a plurality of generally disc shaped permanent magnets each having one  
magnetic pole near its center and a second magnetic pole near its circumference  
and mechanically carried by said rotatable shaft.
20. The generator according to Claim 19, wherein each of said magnets has  
two generally flat circular sides, further comprising:

a plurality of first slip rings, each on a first side of one of said magnets,  
a plurality of second slip rings, each on a second side of one of said magnets, and

a plurality of crossovers electrically coupling said first slip ring and said second slip ring on each of said magnets.

21. The generator of Claim 20, further comprising:

a first lead wire coupled to the first slip ring on a first of said magnets,  
a second lead wire coupled to the second slip ring on a last of said magnets, and

a plurality of third lead wires coupled between adjacent second and first slip rings carried on intermediate magnets to form a continuous circuit between said first and second lead wires.

22. The generator of Claim 21 further comprising:

a plurality of sliding contacts, one each coupled to one of said lead wires and making sliding electrical contact with respective slip rings.